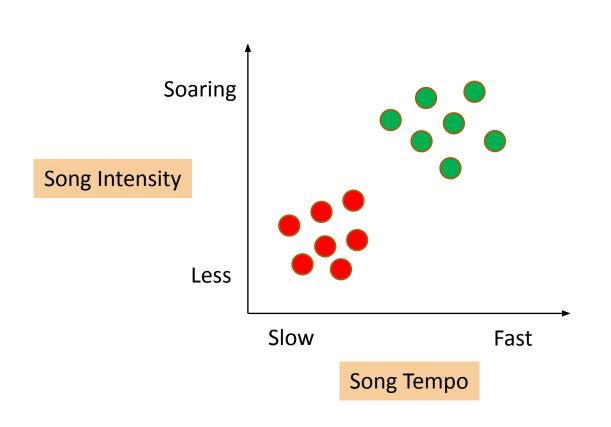
KNN Classifier and Regressor

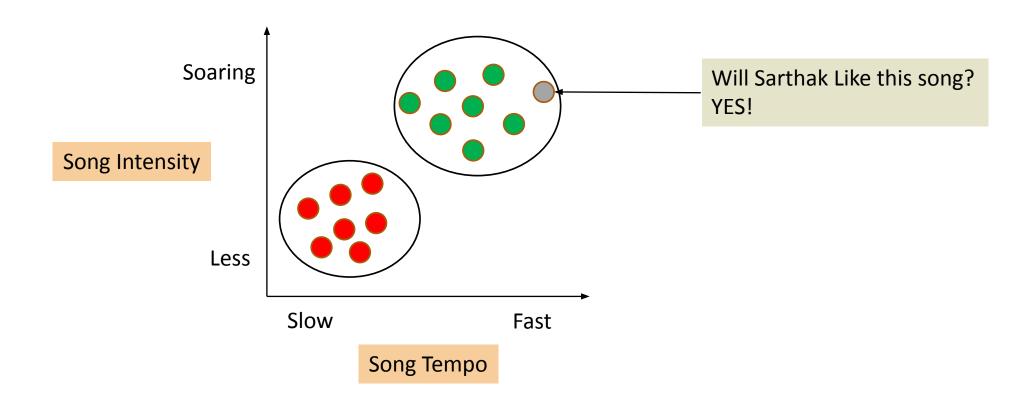
SINDHURA NADENDLA

Example of KNN (K Nearest Neighbours) Classification

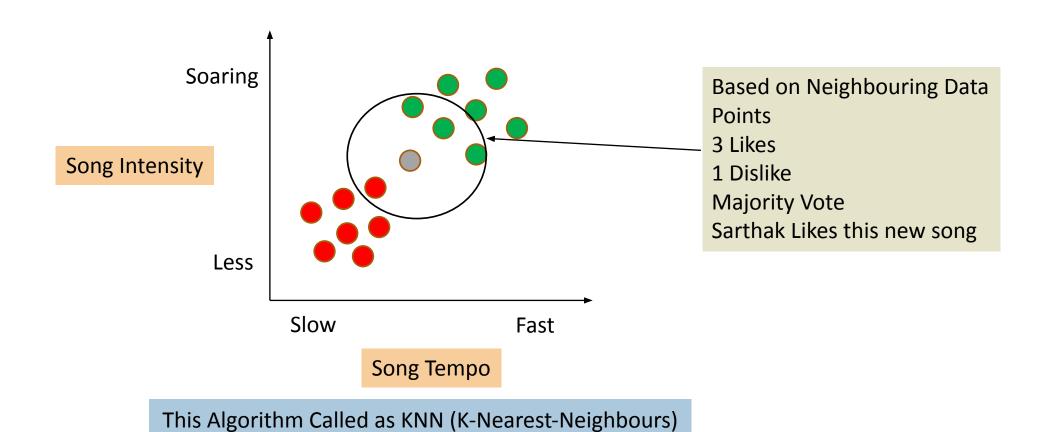




Will Sarthak like new song? Fast tempo, Soaring Intensity



Medium Tempo, Medium Intensity



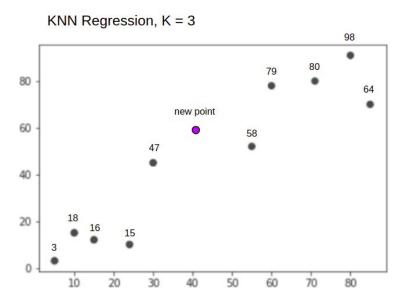
KNN code example

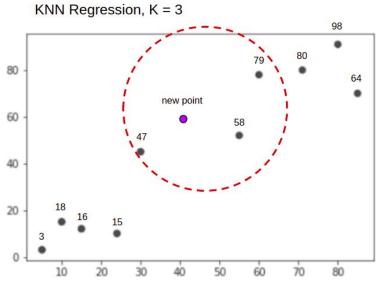
Scaling the Data is necessary in KNN Algorithm

```
# KNN Classifier
from sklearn.neighbors import KNeighborsClassifier
model = KNeighborsClassifier(n_neighbors=5)
model.fit(xtrain,ytrain)
```

```
# KNN Regressor
from sklearn.neighbors import KNeighborsRegressor
model = KNeighborsRegressor(n_neighbors=5)
model.fit(xtrain,ytrain)
```

KNN Regressor example





new point = (47*weight + 58*weight + 79*weight)/3

if weight = 1 for all 3 neighboring points:

new point = (47*1 + 58*1 + 79*1)/3

new point = 61,333

Thank you

PING ME IF YOU HAVE ANY QUERIES